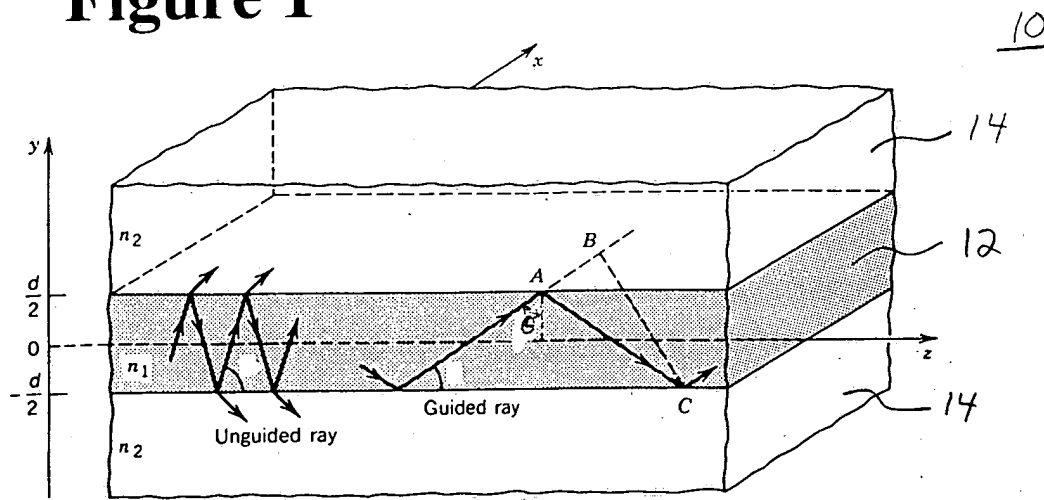


Figure 1



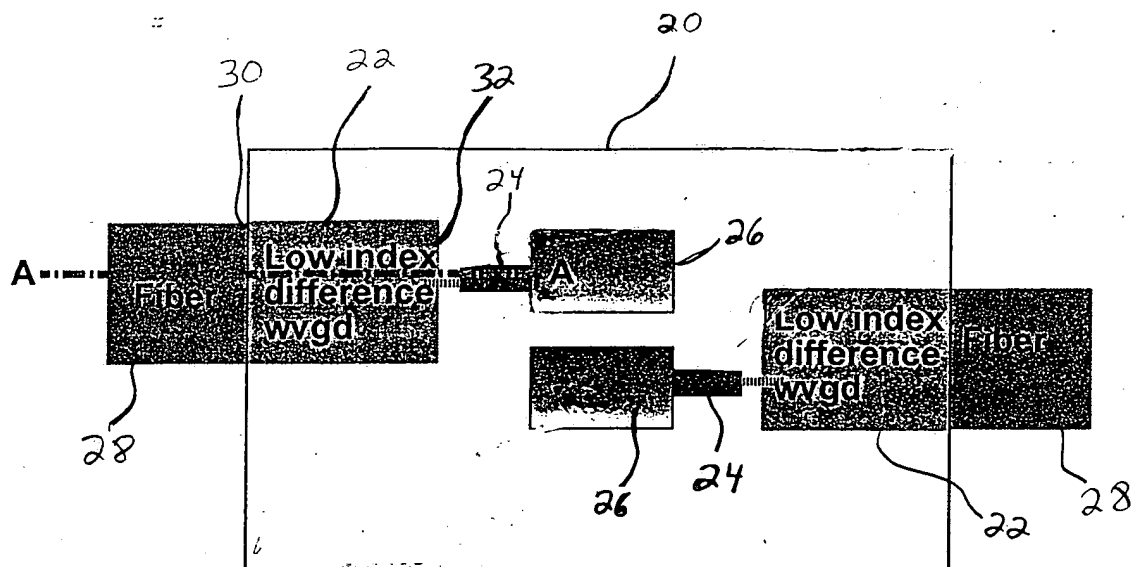


Figure 2

Figure 3

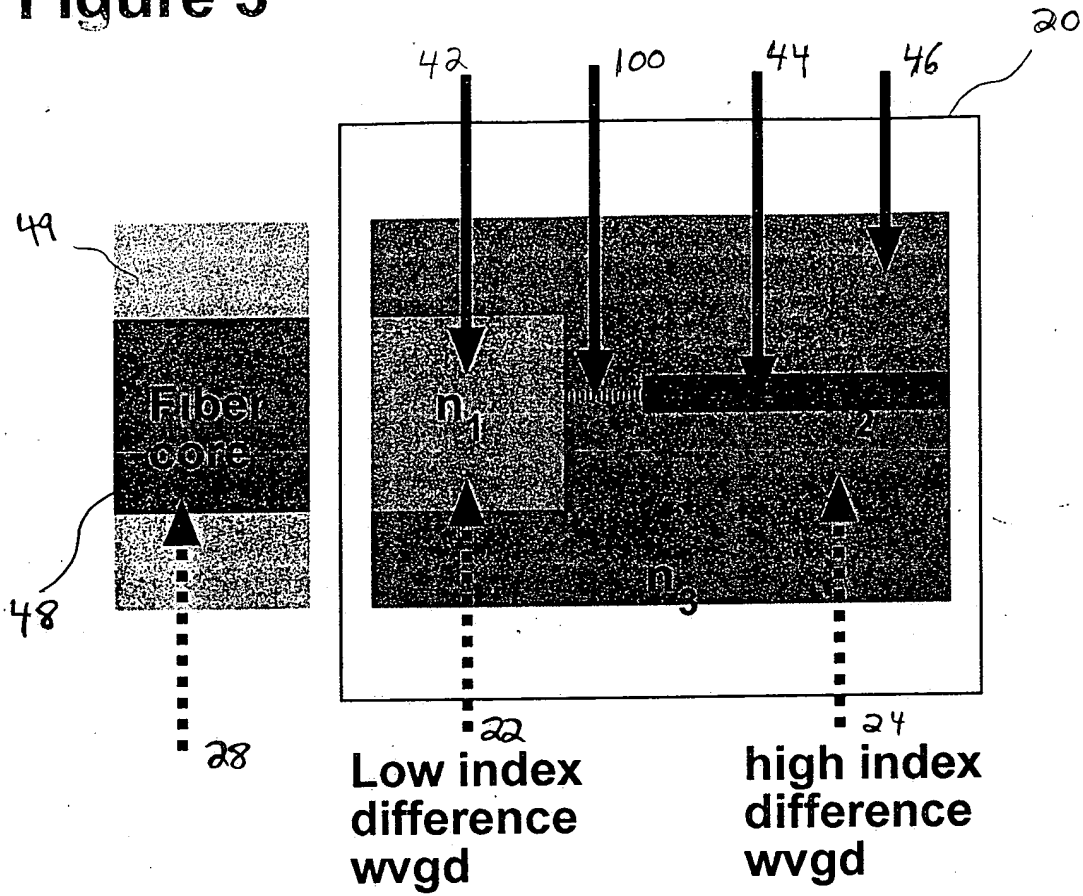
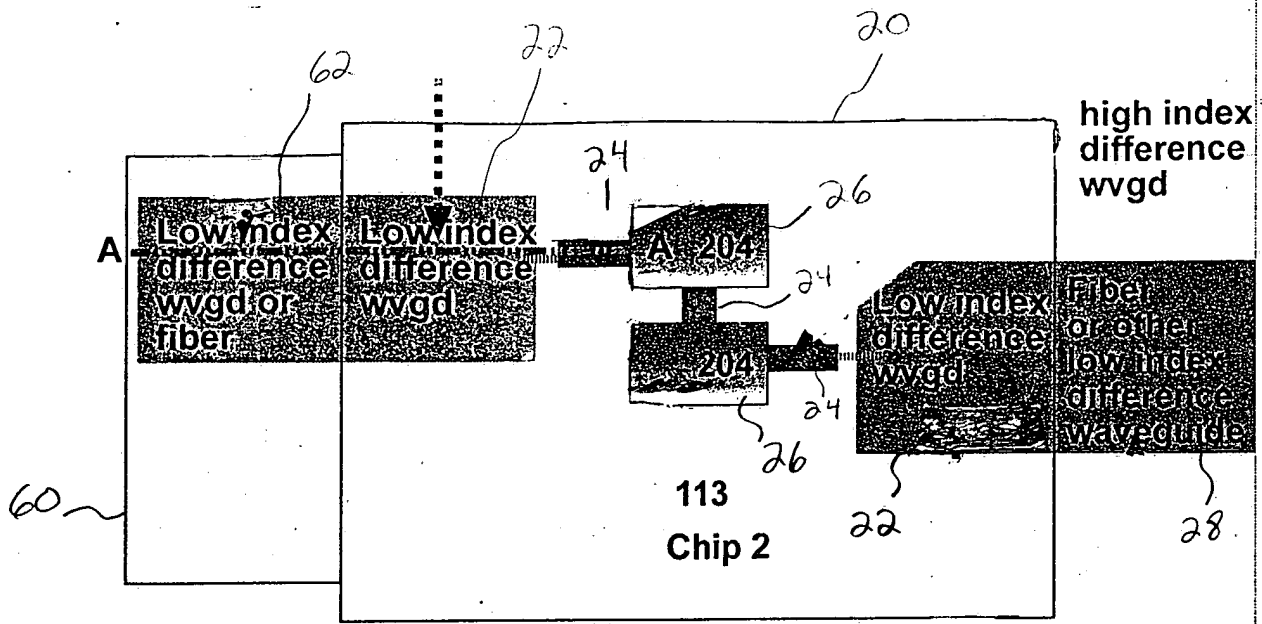
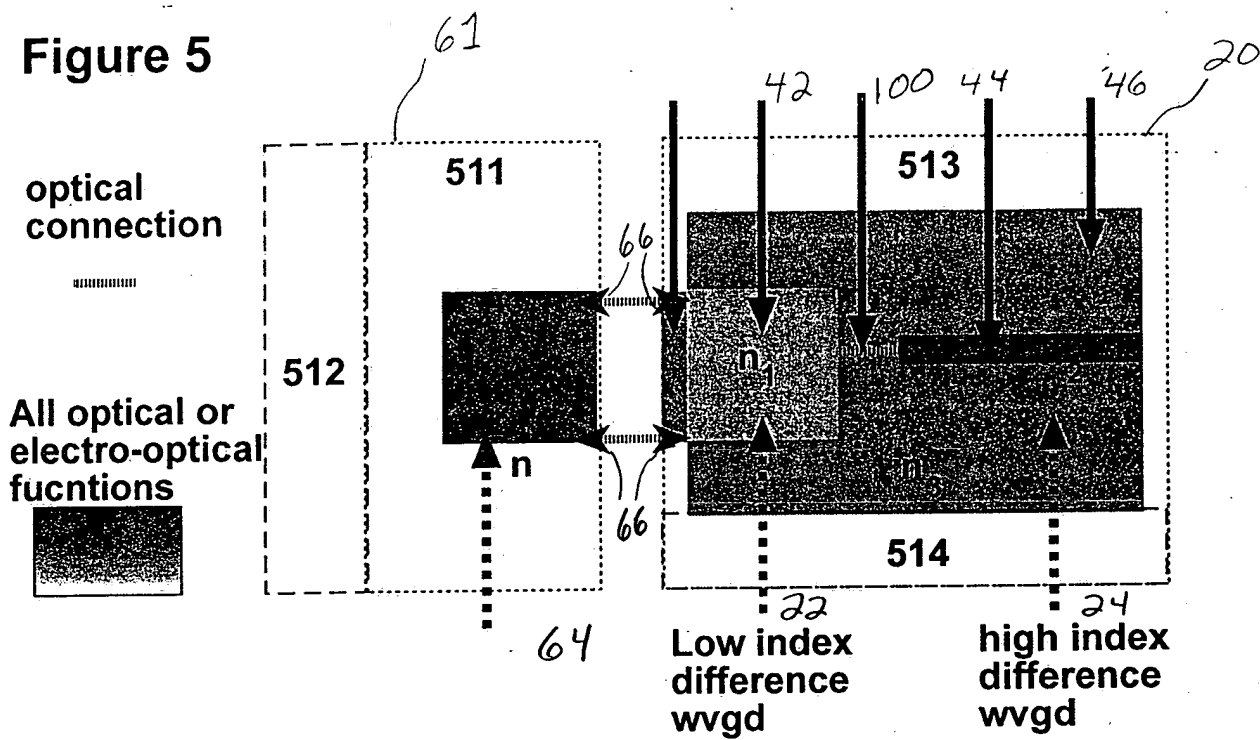


Figure 4



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Figure 5



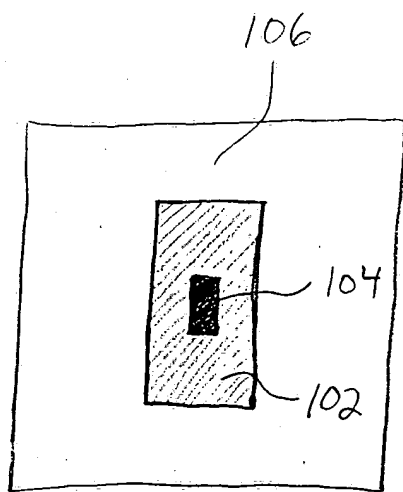


Figure 8

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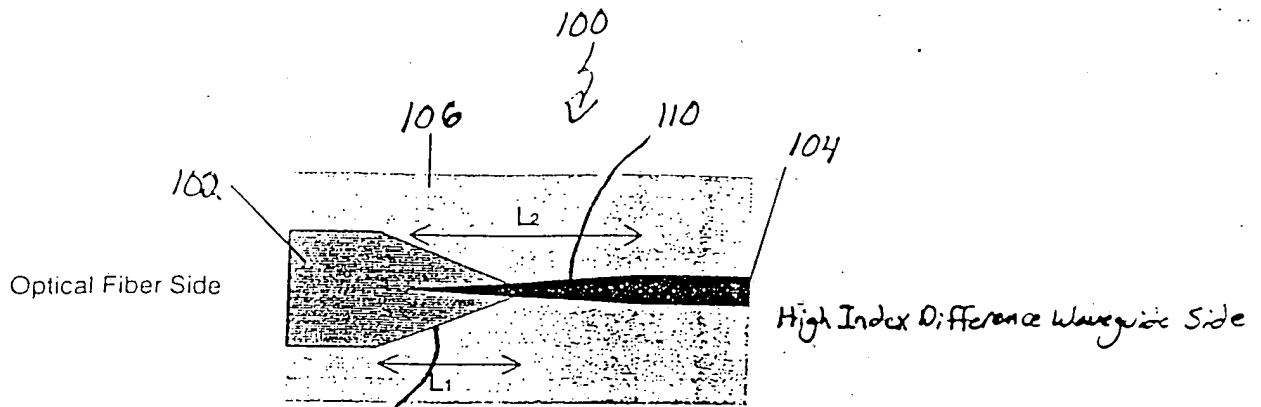


Figure 6

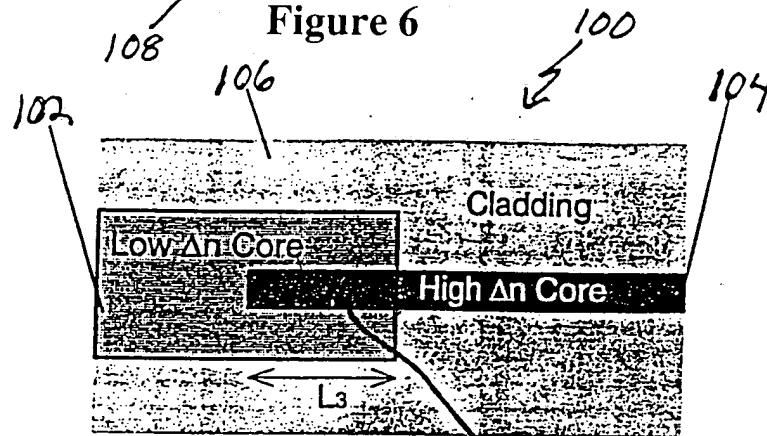


Figure 7

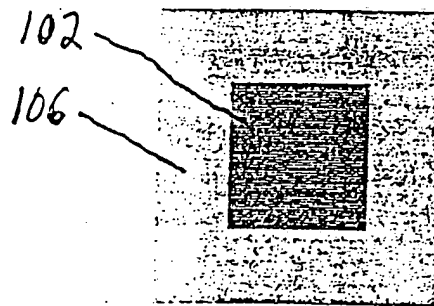


Figure 9

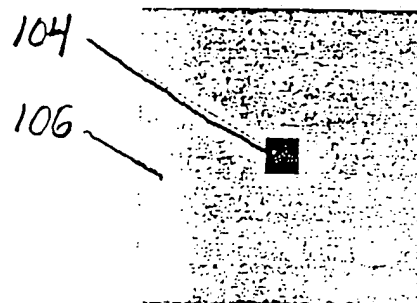


Figure 10

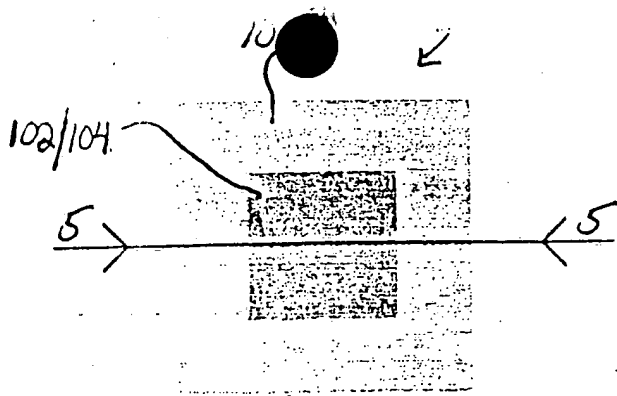


Figure 11A

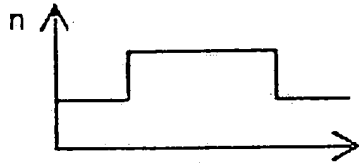


Figure 11B

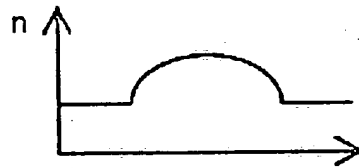


Figure 11C

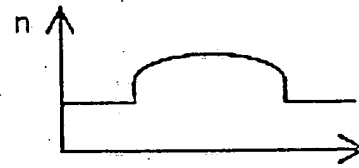


Figure 11D

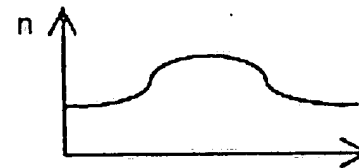


Figure 11E

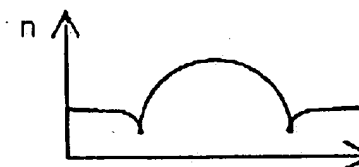


Figure 11F



Figure 11G



Figure 11H

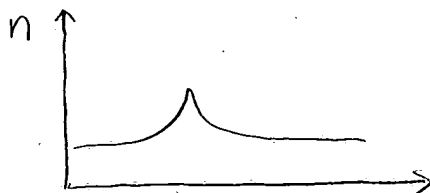


Figure 11I

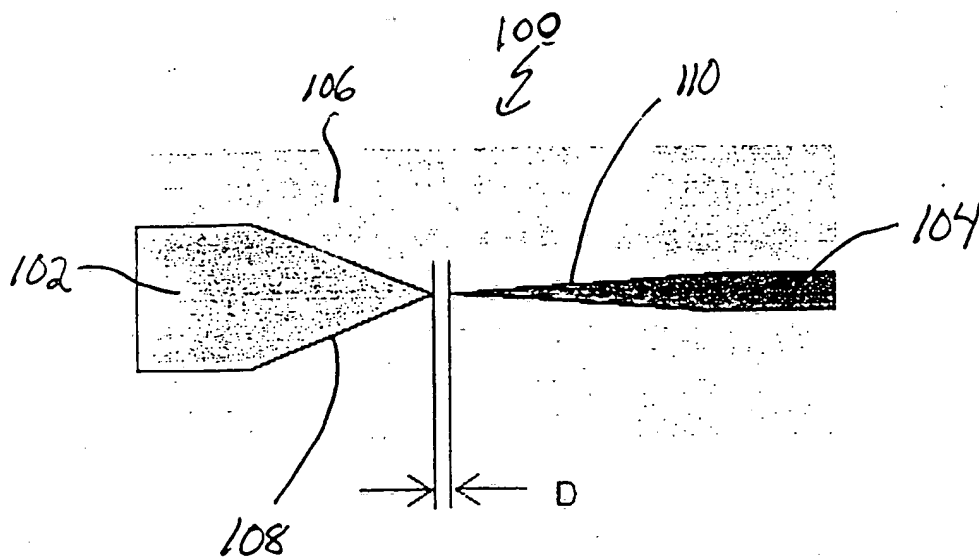


Figure 12

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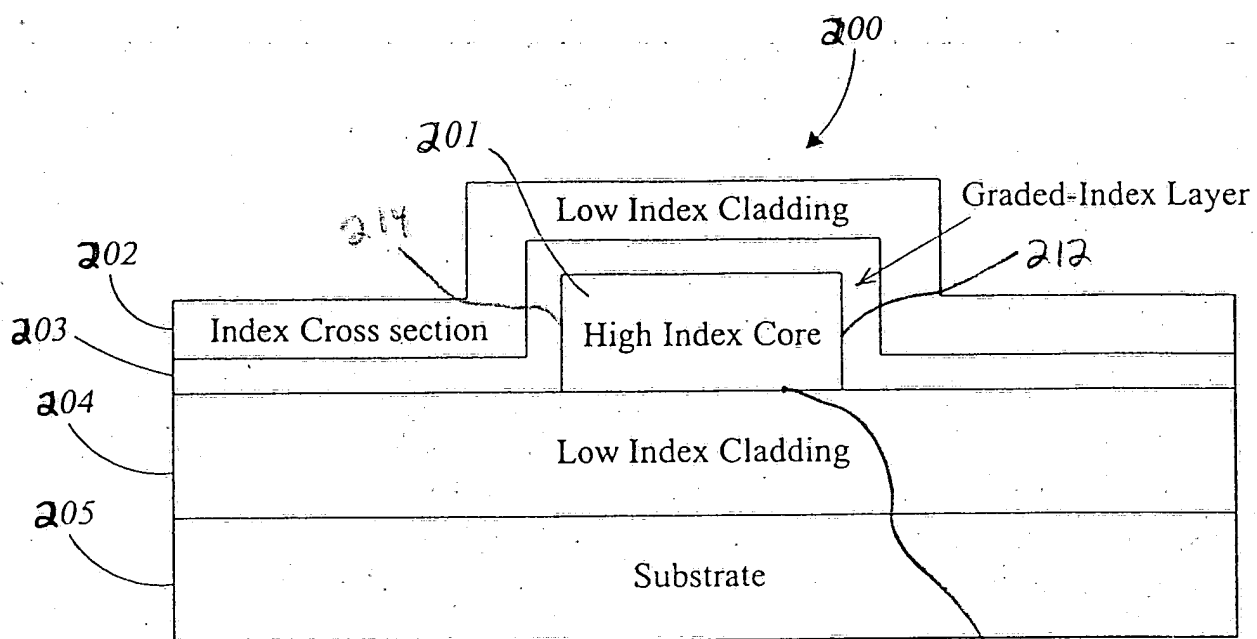


Figure 13

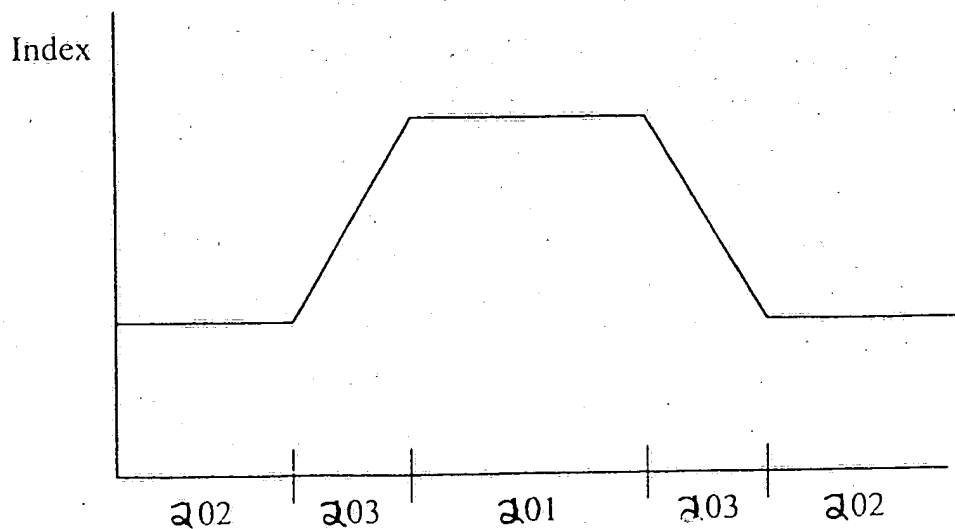


Figure 14

Low Index Cladding



Graded Index Layer
(High to Low Index)



High Index Waveguide Core/
Low Index Cladding/
Substrate

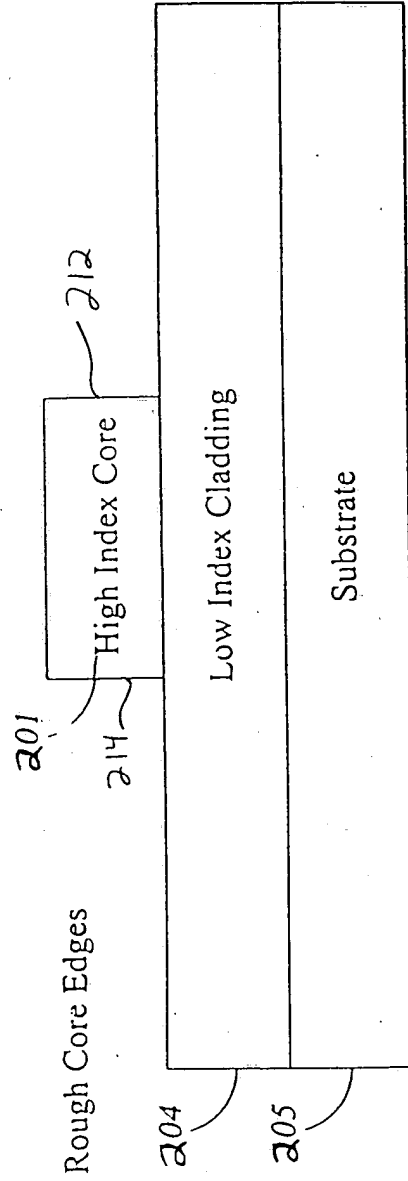


Figure 15

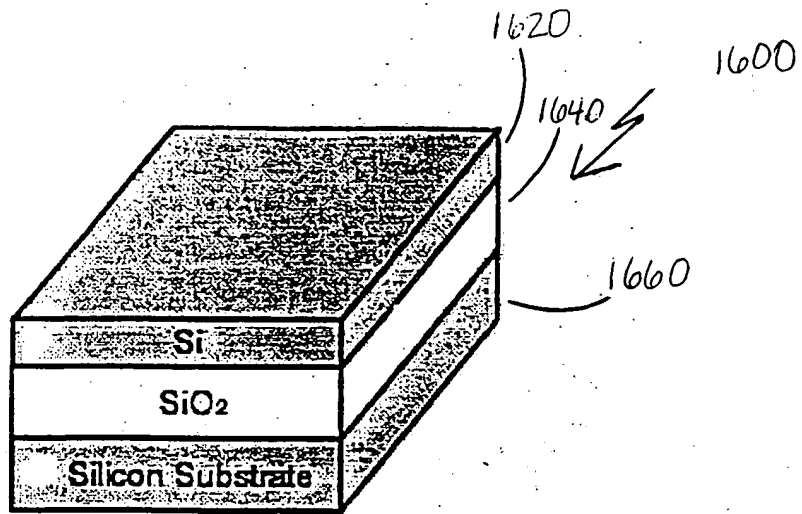


Figure 16

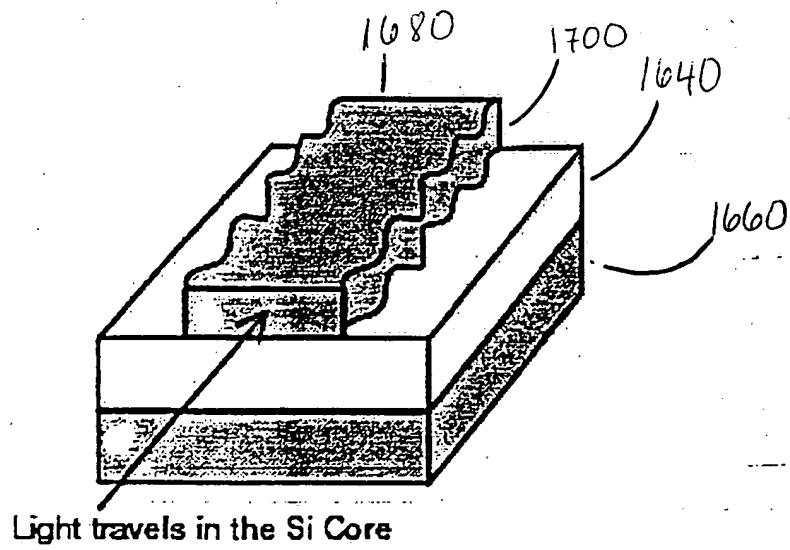


Figure 17

206070-968E400T

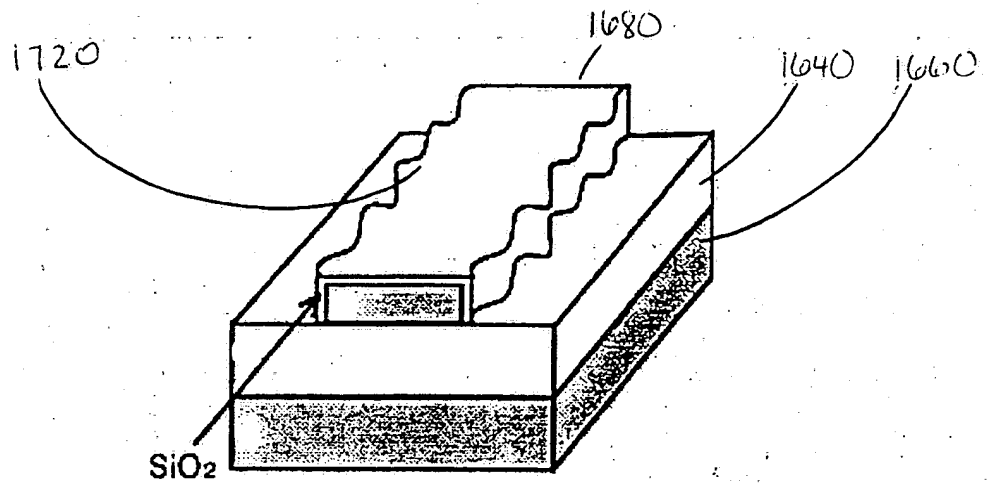


Figure 18

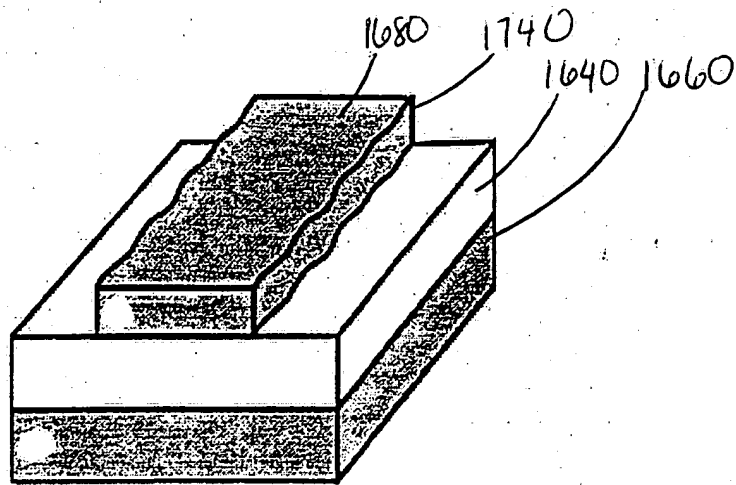


Figure 19

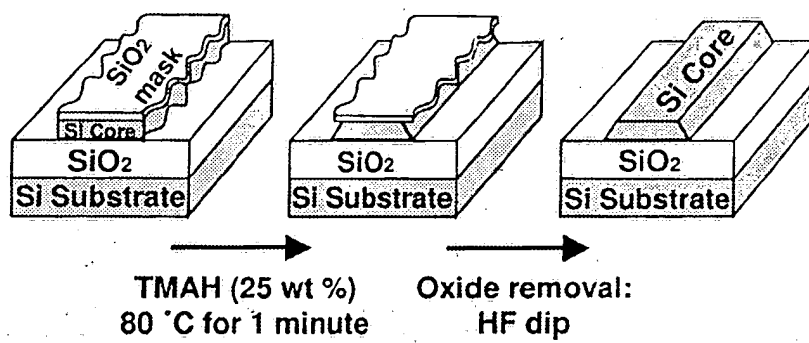


Figure 20.